Vol. 37. No. 55

CAMBRIDGE, MASS., MONDAY, OCT. 22, 1917

Price Three Cents

COURSES AT INSTITUTE SHOW EFFECTS OF WAR

Registration Greatest Where Courses Have Closest Connection With National or Industrial Service

COURSE X INCREASES 12 PER CENT

Even as early as this Walter Humphreys. Registrar of the Massachusetts Institute of Technology, has evolved from the registration at the Institue some of the effects of the war on technical education. A knowledge of this is important since it may help shape lines of preliminary study towards those which the war shows to be in demand. The showing is that chemical engineering is stimulated and naval architecture exhibits an equal increase in students, while civil engineering and electrical engineering remain in about the normal condition.

In the first place the registration at Tech at the end of registration time was between eighty-five and ninety per cent. of what it was last year at the same time. The freshman year shows an increase, the percentage in terms of last year's figure being 104, while the second, third and fourth years classes are respectively 93 per cent., 75 per cent, and 86 per cent, of the number in the school in June.

The graduate students stand today at 60 per cent. of last year's number. There is the most shrinkage in the juniors, the sophomores of last year, to whom two years more of schooling has seemed a long time in the face of striking events calling for active service. The return of eighty-six per cent, of the juniors to be seniors is evidence that the junior summer camp was well advised. The purpose of the camp was to gain some military practice and to give students an opportunity to anticipute fourth year studies, and be finished with their studies and ready for active service at an earlier date.

(Continued on page 3)

Plans For Tech Show 1918 to be Discussed Before Students

The arrangements for the annual Kommers Smoker, which is to be given by the Tech Show Thursday evening at \$15 in the Walker Memorial, have been practically completed, and every effort has been put forth by the Show Man- expects those out at present to report agement to make the entertainment a Following the custom of former years,

the Kommers Smoker will open the season for the Tech Show. The entire undergraduate body is invited, and will be entertained by the stars of last year's musical comedy. Sketches and pecialties from "Not a Chance" will be presented in order to acquaint the new men with the character of the annual Play produced.

The duties of the various departments of the Show will be explained by General Vianager Hutchings '18 and some of the managers, and the time at which competitions for the management and cast of the Show will start will be announced.,

Mr. William Duncan, a prominent New York playwright and producer, and coach of last year's play, will be one of the speakers of the evening.

R. H. White '16, author of the 1916 Tech Show, will speak to the undergraduates and will recount some of the interesting features of this Show.

The annual Kommers Smoker is one ci the most important events of the Tall Term at Technology. The attendance is so large that it has been found order: necessary to use the large dining half of the Walker Memorial this year.

The Tech Show is produced during dunior Week in the Spring, and perand neighboring cities, but also in Northampton and Providence, where the Show is well supported.

8.15 --- Wilbur Theater --- "Love o' Mike" Time, Place and Play For Tech Night

The tradition of Tech Night, the logical celebration of the older tradition of Field Day, promises to become a surety on November 2. Arrangement has already been made for the sale of practically the whole house to Technology men and their friends. The sale of tickets will be held tomorrow from 1.00 to 2.00 o'clock and will continue every day at the same time until the following Tuesday. The price will be twenty-five cents in advance of the regular prices, the additional funds going to the Technology Club of Paris. The place of the sale will be in the main lobby.

The Tech Night Committee has selected "Love o' Mike" because of its reputation of being an unusually bright and tuneful comedy. The clever work of George Hassel, the comedian, the pretty girls and the good music assures the committee that the student body will thoroughly enjoy the performance.

The committee will make no reservations and those who come first will get the best seats.

CIVIL ENGINEERING SOCIETY INSPECTS STATE DRY DOCK

Last Friday afternoon about fiftyfive men of the Civil Engineering Society, with M. Pierce '18, in charge, visited the State dry dock in South Bosten. This dock, which is the largest in the world, will accommodate any ship now built or in process of design. It is twelve thousand feet long, fifty-eight feet deep, and about one hundred and twenty feet wide. Mr. Griffen, representing Cabot and Rollins, the contracshow them the dock and explain the lined with granite to prevent erosion, is so constructed that it can be divided into two parts to accommodate two ships up to six hundred feet in length if desired. The dock is to be drained by means of centrifugal pumps through a tunnel over twelve feet square. The contract price was originally two million dollars, but because of changes in plans and accidents the total cost will probably be well over five millions dollars. Mr. Rollins, the contractor, is a Technology man of the class of '78, and has done a great deal of work in Boston, one example of which is the dam on the Charles River just below the Technology buildings.

FRESHMAN TUG-O'-WAR DAILY AT TECH FIELD

With an average of fifty men practicing daily at the Athletic Field, the tug-o'-war will doubtless prove an interesting feaure of the Field Day pro gram. Coach Boley is well pleased with the men's showing, and, while he has issued a call for more candidates, he regularly on the nine practice days tetween now and Field Day.

Short, snappy work is done every afternoon, except Saturday, from 5.00 to 5.30 o'clock, the exercise consisting of quick starts and regulation pulls, followed by one or two laps around the track.

The following men have made good records and are requested by the management to come out every day with as many others as can be induced along: Adams, Ahem, Ascher, Barker, Beattie, brimblecon, Brown. Buckner, Burnham, Clarke, Clements, A. Costa, A. A. Costa, Crosby, Damon, Datco. Dean, Delanev. Ewerty, Fargo, Fischer, Fuller, Greely, Guild, Harte, Hayward, Hermann, Higgins, Howe, Jackson, Jakobson, Jamieson, Kaplan, Knight, Lane, Levin, Lloyd, Loesch, Luric, McClelland, Mc-Evoy, Mendinhall, O'Neill, Pratt, Ramsev, Richardson, Root, Rosenfield, Rowell. Rule, A. Smith, R. W. Smith, Stiff. Stose, Thomson, Whitman, Wylde.

GLEE CLUB

These men will report at the Emma Rogers room today in the following

Craighead, S. Hazard, Fisk, Jetter, Chen, Carven, Akers and Ekdahl, from 4.00 to 4.30 o'clock; and Conant, Philbrick, Turner, Davidson, Whitaker, A. formances are given not only in Boston Fletcher, Norton and Stewart, from 430 to 5.00 o'clock. Tryouts for the Glee Club quartette will be held at this time.

Captain Canfield of Camp Devens to Speak of Construction Work

This afternoon at 5.00 o'clock Captain F. C. Canfield, U.S.A., will talk to the student branch of the American Institute of Electrical Engineers in Room 2-190. Captain Canfield was chief engineer of tors, met the men on their arrival to construction of Camp Devens, recently established at Ayer, Mass., and after construction and method of operation.) graduating from West Point came to the The dock, which is built of concrete [lastitute and graduated from here in Course VI with the class of 1911. The speaker will talk about the engineering problems involved in the work, the huge financial and business organization necessary, and last but not least the tremendous labor problems confronted and overcome. The meeting is open to ail men interested.

> At this meeting the officers of the seciety hope that some definite afternoon can be arranged for trips which will not conflict with drill. The society has several trips already arranged, in one will probably be to either the Simplex Wire and Cable Company or to the electrical effects at the Colonial Theater and will be taken this week. Men who wish to go must have paid their dues and will be required to sign up on lists which will be posted for the purpose.

TECHNOLOGY MEN WANTED TO LEAD BOYS' CLUBS

The T. C. A. has received a call from several Settlement Houses and Y. M. C. A.'s for Technology men to lead Boys' Clubs. As many of the boys of these clubs have fathers in the service, they uced someone to influence and lead them in a good direction. All those interested are requested to call at the T. C. A.

FRENCH USING GAS THAT PENETRATES MASKS

Ambulance driver Conrad Hedin '19, who arrived in an Atlantic port October 15, after serving in section 66 of the American Field Service in France, said that the French had developed and were using a gas which is entirely odorless and against which masks are of no

"We were in the Chemin des Dames region on the Aisne for part of the time," said Mr. Hedin, "That is a front which is not relished by anybody, especially the portion about Hurtebise, where the Crown Prince's 'death head' hussars are busy. There is no resting for anybody there.

"When the Germans started using their most recently discovered gas, which makes breathing even through masks very hard, the French bethought themselves of some retaliatory measure, and they hit upon a gas, compared: to which the German mustard gas is as. impotent as a delicate perfume. The French gas defies masks altogether and is entirely odorless..

GOVERNMENT ISSUES DEFINITE ORDERS FOR MILITARY COURSES

War Department Favors Instruction in Signal Corps and Coast Artillery Branches for Lower Classes

ESTABLISHES

TENTATIVE CURRICULUM

O. T. C. work in the Signal Corps and the Coast Artillery branches of the service has been recognized by the government for freshmen and Sophomores pursuing certain specified courses. Tenative schedules have been laid down by the War Department for the students who intend to take up this instruction. These plans have not been finally approved as to detail, although they have been in principle. Technology men who complete the prescribed work will be eligible to receive commissions.

Although the courses will be started at once, the enrollment, for the present, is to be limited to the freshmen and Sophomore classes and ends with the completion of the second year. If the third and fourth year courses should not be finally approved so as to be acceptable, students will not be obliged to enroll for them, since the completion of two years' work implies no obligation to continue, but merely makes these men eligible to do so if desirable.

For the present, Sophomores who desire to enroll in R. O. T. C. work are advised by the Department of Military Science to join the Advanced Battalion. Second year men in Field Day activities will be obliged to drop drill until November 2. All Sophomores who do not signify their intention of entering this work now will not be permitted to do 30 next year. The first year work corresponds to the three hours a week infantry drill as now practiced by the freshman regiment.

In the third and fourth years, the men enrolled will be paid about eightyfive dollars a year.

The provisional schedules for those intending to enter R. O. T. C. Signal Corps work follows:

SIGNAL CORPS

1. The course herein prescribed is provisional. If additional requirements obtaining admission to various plants are found necessary later, students enon account of war conditions. The first rolled for the Advanced Course will be relieved from their obligations if they so elect.

2. This course is designed especially for those who take the course in Electrical Engineering, but it is open to those whose academic courses are so nearly allied to this course that they can take all the prescribed scientific subjectes in addition to the regular drill. The First Year Course (3 hours per

week) is as follows:-Physical Training; Infantry Drill, to include the School of the Soldier, Squad and Company, close and extended order; Ceremonies; Inspections; Muster; Honors and Salutes: Nomenclature, care and the use of the U.S. Magazine Rifle, to include sighting and aiming drills, gallery practice, and Special Course "A."

The Second Year Course (3 hours per week) is as follows:-Physics; Physicai

(Continued on page 4)

NOTICE TO ACTIVITIES

Notice is given to the activities that a standard size bulletin has been adopted, 11x17 inches. This size is best fitted to make use of the little room available. Better facilities are now being arranged for. No bulletin or poster may be placed on any Official Bulletin Board. Only boards marked "Student Activities can be used. The placing of bulletins upon projections in the wall is a violation and the bulletins will be

removed at once, without notice. BULLETIN BOARD COMMITTEE.

WHERE TO GET YOUR TECHS

Copies of The Tech may be had at The Tech office, the Coop, entrance of building 10 before 9.00 a. m., the Caf, the Walker Memorial, and The Tavern Lunch,

President Maclaurin and Dean Burton Speak

About sixty men attended the Cosmopolitan Club smoker, held last Wednesday evening in the Caf, when President Maclaurin and Dean Burton addressed the men.

President Alvare 19 of the society first welcomed the visitors and explained that the purpose of the society was to promote better relations between the foreign and the American students. He discussed the prospects of the coming year and encouraged the members to work; for, he said: "All of us are proud of Tech; let us make Tech proud of us."

He then introduced President Maclaurin, who greeted the new and the old members, and spoke of the necessity of such a club at the present time. One cause of the war, he explained, was the fact that the peoples of the different countries do not understand each other. One purpose of Cosmopolitan Clubs is to to know one another as human beings. This society should bring together those who are not in the habit of mixing. It ought to be a powerful organization in Technology, and I am sure that it will

After an interlude on the piano, Dean Burton, who was one of the original members, was presented. He recalled many of the chronicals of the Cosmopolitan Club. The society was suggested and formed by Gorton James 10, to develop greater friendship among the students, especially those who come from foreign countries. The idea was not to debate questions of the day, but io have pleasant times together. It has had, in the nine years of its existence, between three and four hundred members. The presidents of the club have come from all quarters of the globe, only once duplicating in nationality. A few years ago, the club had a joint banquet with the Harvard Cosmopolitan Club.

CONCERNING COMMUNICATIONS

Several communications have been received at The Tech office, but publication of them has been deferred until later in the week.

CALENDAR

Monday, October 22, 1917 4.00 P. M.—Tryouts for Glee Emma Rogers Room. Aero Club Meeting. Room 3 - 270.

4.30 P. M.—Tryouts for Glee Club. Emma Rogers Room. 5.00 P. M.-A. I. E. E. Branch. Room

2-190. Tuesday, October 23, 1917 1.00-2.00 P. M.—Tech Night Seat Sale.

Main Lobby. Wednesday, October 24, 1917 8.00 A. M.—Rehearsal Mandolin Club. Emma Rogers Room.



Entered as second-class matter, September 16, 1911, at the Postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Published twice a week during the college year by students of the Massachusetts Institute of Technology.

MANAGING BOARD

Paul C. Leonard '17C	hairman of the Board
Ceorge B. Hutchings, '18,	General Manager
Kenneth Reid '18	Editor-in-Chief
W. Raymond McKenney '19	Managing Editor
Lawrence Winant, '20	. Advertising Manager
O. Donn Burton '18	Circulation Manager
John W. Meader '19	Treasurer

IN CHARGE THIS ISSUE

E. S. Burdell	'20	Night	Editor
	Assistant		

Subscription \$1.50 for six months, \$2.00 for eight months, \$3.00 a year, payable in advance. Single copies three cents.

Superiptions within the Boston Postal District or outside the United States must be accompanied by postage at the rate of one cent a copy. Issues mailed to all other points without extra charge.

News Offices, Charles River Road, Cambridge, Mass.; 152 Purchase Street, Boston, Mass. News Phones, Cambridge 2600, Main 3810. Business Offices, Charles River Road. Business Phone, Cambridge 2600.

Although communications may be published unsigned if so requested, the names of the writer must in every case be submitted to the editor. The Tech assumes so responsibility, however, for the facts as stated nor for the opinions expressed The Editor in Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the e~ws columns.

MONDAY, OCTOBER 22, 1917

STUDENT STAGNATION

T the opening meeting of the Chemical Society, Professor Talbot emphasized the need of broader vision on the part of the undergraduate. He quoted extracts from certain prize examination papers to show that the students had an excellent knowledge of the principles of Chemistry, but hardly knew anything of the history or even the present tendencies and leaders of this profession. There is no doubt that this evil has made more headway at Technology than at most colleges. It is therefore important that every thoughtful student should consider the seriousness of the situation. At this Institute, it is natural to assume, as a result of specialized study, that your particular course is the one and only profession. This is a sad mistake, because it is an undeniable fact that the really great men know much of general history, both past and present. Furthermore, when a man enters the world for his life work, he is expected to know about the present industrial methods, as well as something about the experts who are doing the big things today. It is therefore to his advantage to find out what is happening in his profession now. Are you supplementing for your own benefit the required study by frequently reading the numerous popular scientific and industrial magazines which can easily be found in the Institute libraries?

It seems that it is always necessary to remind that part of the student body of colleges which does not take part in the various athletic doings that their support is absolutely essential for the success of their representatives. Recently the Pennsylvanian complimented the undergraduate body for its support in the line of cheering. This is recognized as a most important factor in the success of college teams. Will it be necessary to admonish the two lower classes to have some rip-roaring cheers on hand for Field Dav? Nothing else lends more to the spirit of good-fellowship and rivalry than the striving of the one faction to outdo the other in their vocal evidence of keen interest. Technology has never been a big factor in Intercollegiate sport, but on the one occasion if on no other, Institute men can show that they to appreciate what that vague thing proverbially known as "College Spirit" is.

It is deplorable that it should be necessary to call the attention oi Institute men to the fact that smoking in the corridors of the buildings is the height of impropriety and a practice which cannot be condoned. True it is usually the freshman who is guilty of this breach of conduct, but there are certain upperclassmen who loiter in the corridors smoking with the greatest of unconcern. Ignorance on the part of the freshmen and others who are at the Institute for the first time is no excuse and there is certainly no justification for the other men who should know better. Immediate discontinuance of this indulgence should make rulings on the matter unnecessary.

This Saturday the first five weeks of the term will come to an end. It will not be necessary to mention this to freshmen—they will receive their first reports soon. The upperclassmen are the men who are apt to overlook the fact that a third of the term has passed. With the present conditions which are likely to take one's mind from his studies, a little reminder might accomplish some good. The strict attention to work now will obviate the necessity of the ever unpleasant and unsatisfactory craming just before the end of the term.

MENORAH SOCIETY HOLDS RECORD MEETING IN MEMORIAL

At the arst meeting of the Menorah Society, the attendance, of over fifty men, showed an improvement over last year, when only six were present. Dean Burton, Professor Wilson of the Department of Economics at Boston University, and several of the officers of the society addressed the meeting.

President Selya outlined the history of the society and told about its ideals. The organization was started in 1906 at Harvard University by a group of twelve men who wanted to learn more of Jewish history. The society was introduced into Technology in 1914 with about ten members.

Dean Burton old of the society when it was still young in the Institute. The attitude of the society is one of culture and ideals rather than of religion. Dean Burton said: "The Jew should not re main apart from the rest of the world, but should have a pride in his coalition with the other peoples, because of his remarkable ability and earnestness to

Professor Wilson, in a talk on the beginnings of economics, said that the first men who ever compiled and wrote volumes on that subject were Jews. The theory of rent, the theory of value, labor problems, such important issues were begun by the forefathers of the Menorah Society members. He went on t. online the purposes of the organization: "The society aims, first, to study the principles of Jewish history and culture; secondly, to broaden the minds and morals of its members by the discussion of present day topics: thirdly, to be natriotic to America.

The officers of the society are:-President, H. P. Selya '19: Vice-President, H. Katz '18: Secretary, J. Kaufman '19; Treasurer, B. Cohen '19; Executive Committee, J. Wolfson '20, S. Levinson '20, and D. Brown '19,

MANDOLIN CLUB

Rehearsals of the Mandolin Club are being beld Wednesdays and Fridays at 800 A. M. and Saturdays at 1.00 P. M., in the Emma Rogers Room. Attendance at three rehearsals will count in the first cut which will be made in a few weeks. The management announces that all men in the club should attend rehearsals regularly as the first concert corres in a very short time.

AERO CLUB

The Aero Club will hold a meeting teday in Room 3-270 at 400 P. M. All members of the club and all freshmen interested in aeronauties are invited. A succial course in "Gas Engines" will be offered for the benefit of freshmen.



also a Free Trial Bottle of

Mellin's Food

Custom Tailoring

WE EMPLOY NO HIGH PRICED SALESMEN TO **SOLICIT YOU**

When a man purchases once we rarely lose him as a customer.

Why?

Because we have always b een able to give quality by supervising the manufacturing in our own workroom.

Because our prices are low for the kind of suits we build. That is due to low selling expense.

Our Wish

is that you will investigate before ordering your suit or overcoat.

Harvard Cooperative Society

SIMPLEX WIRES AND CABLES

NEW BUILDINGS OF

M. I. T.

SIMPLEX

SIMPLEX WIRE & CABLE (9) 201 DEVONSHIRE ST. BOSTON

SAN FRANCISCO

ENGLAND STRUCTURAL CO.

CHICAGO

INDUSTRIAL ENGINEERS

and

SPECIALISTS IN STEEL CONSTRUCTION

Complete Contracts for Power Plants, Factories, and all Industrial Enterprises

EVERETT, MASS.

110 STATE ST., BOSTON, MASS.

Armstrong Transfer Co.

Baggage, Carriage and Automobile Service at all Railroad Stations Branch Office in Railroad Ticket Office, Ames Building, Cor.

Court and Washington Streets.

Purchase your railroad ticket in advance and let us check your baggage to destination thereby saving you the trouble of rechecking at station.

Brookline Office-1296 Beacon St., Telephone, Brookline 3020.

General Office-271 Albany St. Boston. Telephone, Beach 7400.

Iron :: Steel :: Metals Arthur C. Harvey Co.

374-394 Congress Street

TOOL STEEL

BOSTON, MASS.

TELEPHONE, MAIN 7000

SHEET IRON

CONCRETE RODS COPPER

BOILER TUBES METAL LATH ZINC

We Are Equipped to Cut to Length Anything Carried in Stock

LOST—Tuesday, Oct. 17, on Tech Field, a gold penknife marked D. C. S. Finder please notify D. C. Sanford, Jr., 44 Fenway, Boston. B.B.

PLATE STEEL

SOLDER

Nothing will be more appreciated this Christmas by your relatives and friends than a good photograph. Mention TECH and receive special rates.

> CHAMPLAIN STUDIOS 161-164 Tremont St.

Reinforced Concrete

Twenty-five years' experience, an organization of engineers, superintendents and foremen, each man an expert in his particular field, the most progressive methods, and an up-to-date equipment enable us to plan and execute the biggest and most intricate reinforced concrete work of the highest standard, correctly, quickly and economically.

Aberthaw Construction Co. Contracting Engineers

27 SCHOOL ST., BOSTON, MASS.

AIR SERVICE JOURNAL

Devoted it the Interests of the Army and Navy Air Services

Prints, every Thursday, all the news of the air services, personal activities, foreign events, developments in the in dustry, notes of the flying fields, spe cial articles on military and naval aeronautics, photographs of aerial hap-penings throughout the World, progress and achievement in brief and attractive

\$3 yearly; Foreign \$4. 10 cents a copy Address

> AIR SERVICE JOURNAL 120 West 32nd St, New York

WAR EFFECTS COURSES

(Continued from page 1)

In a consideration of the effect on the courses it may be well to omit those with less than fifty men since the defection of two or three students makes an undue percentage shrinkage. One of them, however, naval architecture, is stimulated by the war and the increase is 16 per cent. The course in naval architecture has always been small in attendance and has been maintained by the Institute for a good many years as a contribution to education.

Of the larger courses civil engineering maintains practically the same figure as in former years, the shrinkage being one and two-tenths per cent. while electrical engineering opens the year with a loss of only two per cent. Chemical engineering, due probably to the advertisement given to it by the war, has twelve per cent. increase. It is interesting to note that engineering administration is practically holding its own, having lost only six and one-half per cent. since the last registration. Architecture has declined nearly onethird in the number of its students Perhaps the undue cost of building materials, fifty to one hundred per cent. in many cases, and the consequent gossip that building operations will be at a standstill, has had its influence in detering young men from taking the work of this department. It is a little surprising to find that mechanical engineering has lost about twenty-one per cent. It is in this work that Professor Miller, head of the depaprtment, has undertaken for the U.S. Shipping Board the management of the schools for marine engine room officers. The decline in this department is the more surprising in that of the hundred odd men who have entered the Institute gineering, mechanical engineering, civil engineering, electrical engineering and engineering administration, with naval

Technology Men in **National Service**

Names of Technology men in service, their addresses, military rank, etc., are urgently needed by Technology organizations which are endeavoring to keep in touch with all such men.

The Alumni office at the Institute is compiling a list which is later to be published in pamphlet form. The T. C. A. is also recording data of a similar nature. What they all lack most at the present time are ad-

All records sent in to The Tech will be published and sent to each of these parties as well as to every Technology organization throughout the world.

You owe it to the Institute, to your classmates, and to your friends to send any information of this character to the Managing Editor, The Tech, Massachusetts avenue. Cambridge, Mass.

ENSIGN EDWARD E. HIGGENS '86. connected with coast defence of Connecticut, died June 20, 1917, from cerrebral menengitis induced by overwork in the

service of the Government., CAPTAIN E. D. WALKER '90, is with Company A, 15th U. S. A. Expeditionary Force, now in France.

WILLIAM BEMENT CLAFLIN '92, is captain in the 114th Engineers, Camp Beauregarde, Alexandria, La.

MAJOR W. G. WALL '96, is working in this country on motors for tanks. MAJOR H. W. ALDEN '93, is now working in France on engines for tanks. COLONEL FRANK S. ELLIOTT '05,

with the Infantry, M. N. G. W. E. HADLEY '04, is a first lieutenant in the Engineer Corps.

FIRST LIEUT. H. F. LEWIS '05, was killed while serving in the Canadian lufantry. CAPTAIN G. F. HOBSON '06, is with

the Engineers, U. S. R. H. B. HUNT '07, has received his commission as major in O. R, C.

H. G. PASTORIZA '07, has received h's commission as first lieutenant, 0

E. J. H. WATERS '07, is an engineer with the British Army. His address is Chesterton House, Bournesmouth, W.

H. S. WONSON '07, major in the the Council for National Defence. ALEXANDER ELLIS '08, is a first lieutenant with the 101st Engineers. LYNN A. LOOMIS '08, first lieuten-

ant. Sanitary Corps, has been assigned to Allentown, Pa., for training. CAPTAIN A. L. SHAW '09, is with the Engineers, U. S. R., Camp Devens.

FIRST LIEUT. H. S CLEVERDON 10, is with the Engineers, U. S. R. T. W. SAUL '10, first lieutenant, Co. E, 18th Engineers, Railway. In France

with American Expeditionary Force, via LOUIS GRANDGENT '11, is a captain in the 101st Infantry, American

C. P. KERR '11, has received commission in the Signal Corps.

T. P. PARKER '11, who is now with the Utah Power and Light Co., has been offered a commission in the Engineer

H. F. CLARKE '12, ordered to Fort Leavenworth, Kan. (Eng. Camp.) C. F. HIGGENS '12, is a second lieu-

tenant in the 302nd Infantry. E. B. MOORE '12, commissioned first

licutenant, Ordnance Section. H. G. BORDEN '14, has received his captaincy in the U. S. Engineers, and

is stationed at the Washington Bar-WALTER P. MUTHER '13. connect-

ed with Military Aviation, Essington,

G. A. BEACH '14, is in Ambulance Section, American Expeditionary Force. D. O. DES GRANGES '14, with U. S. Railway Engineers, 7th Regiment,

CHARLES P. FISKE '14, is a first licutenant in the Ordnance Dept., U.

FIRST LIEUT. A. S. MORRISON '14, has been assigned to the New York

GORDON W. WHITE '14, is with the 7th Regiment, U. S. Railway Engineers,

KENNETH T. KING '15, is a first lieutenant in Ordnance Dept., U. S. R. HAROLD PICKERING '15, is in C. A. C. training camp. Fortress Monroe, Va. H. P. SABIN '15, is a captain in U.

S. R. Engineers. J. F. STAUB '15, is in Naval Aviation School, Pensacola, Fla.

J. W. BARKER '16, is a first lieutenant in C. A. C, Fort Worden, Wash. E. H. BARRY '16, is a machine gun

instructor in the Springfield Arsenal. C. A. COLEMAN '16, is a first lieu-tenant in the C. A. C., U. S. A. FIRST LIEUT. H. T. FREEMAN '16,

R. S. ROWLETT '16, machine gun instructor, Springfield Arsenal.

N. C. CHASE '17, is in 1st Battalion, 301st Infantry. BRIAN C. CURTIS '17, is a first lieu-

tenant in the Ordnance Dept., U. S. R. J. DAMON '17, is a corporal in the 101st Engineers in France.

L. DAVIS '17, is a machine gun instructor in the Springfield Arsenal.
P. E. HULBURD '17, is a first lieu-

tenant in the C. A. C. G. D. KITTREDGE '17, first lieutenaut, C. A. C. F. S. KRUG, JR., '17, first lieutenant,

C. A. C. HAROLD E. LOBDELL '17, second lieutenant, 10th Co., 3rd Battalion,

Dept. Brigade. I. B. McDANIEL '17, Assistant Naval

Constructor, U. S. N. CHARLES MILLER '17, first lieutenant, commanding Co. B., 301st Field

L. I. NOYES '17, has applied for Aviation Service, U. S. R.
E. E. POLLEY '17, second lieutenant, Engineers, U. S. R.

H. O. WHITNEY '17, U. S. N. R. H. C. WILLIAMSON '17, second lieutenant, Adjt. Gen. Dept. Div. Head-

E. M. WOODWARD '17, first lieuten-

ant, C. A. C. N. C. WORKS '17, second lieutenant ir 9th Co., 3rd Battalion, Dept. Brigade. W. T. BIGGAR '18, is at Ayer. H. M. BLANK '18, is a first lieuten-

ant. C. A. C. S. K. COOPER '18, ensign, U. S. N. R. H. COYNE '18, is in the 301st Inf. W. S. FRAZIER '18, has applied for Aviation Service, U. S. R.

G. L. HANCOCK '18, first lieutenant Aviation Section, U. S. R.

W. LOHMEYER '18, is a second lieutenant in Engineer Corps.

M. M. STETLER '18, has applied for Aviation Service, U. S. R.

L. A. STEWART '18, has applied for Aviation Service, U. S. R. K. S. M. DAVIDSON '19, is in Avia-

tion Service, U. S. R. E. F. DEACON '19, is a second lieu-

tenant in the 301st Engineers at Ayer. D. W. KITCHEN 19, is in Co. A, 301st Field Signal Bat. E. E. SCOFIELD '19, has applied for

Aviation Service, U. S. R. C. W. SCRANTON '19, has applied for Aviation Service, U. S. R.

J. L DEAN '20, is a sergeant at Camp Meade, Md.

FRESHMAN DISCUSSION GROUPS

Freshman Discussion Groups were M. R., has been assigned for work started during the past week. More than one hundred and ninety freshmen, divided into twelve groups and led by as many upperclassmen, discussed the problems confronting Technology men.

Although these groups are under the direction of the Technology Christian Association, the talks are not religious m character, but touch those subjects of vital importance to every man at the Institute.

The discussions last week were on the subject of "Adjustments," especially devoted to the problems confronting the men away from home for the first time. Next week the freshmen will have a talk on the handling of their personal funds. The question of paying dues and the proportioning of the income to the various expenses is another topic that

this course is planning to touch upon. Following in order will come discus sions of the "Use of Time," "Personal Efficiency," "Student Honor," and "National Service."

The places of meeting, times, leaders and sections, to date, are as follows:-Monday 10-11 in 2-246. Leader Bal-

four. Sections 7, 19. Monday 12-1 in 2-136. Leader Eastman. Sections 1, 24.

Monday 12-1 in 2-139. Leader Riegal. Section 6.

Tuesday 11-12 in 2-136. Leader Marks. Sections 16, 18. Tuesday 11-12 in 2-142. Leader Carr.

Sections 22, 23. Tuesday 12-1 in 2-139. Leader Stock

barger. Sections 3, 15. Tuesday 12-1 in 2-147. Leader Dinkms. Sections 8, 14.

Friday 11-12 in 2-136. Leader Mr. Cushman. Sections 5, 20 Thursday 11-12 in 2-136. Leader Van

Kirk. Sections 2,17. Thursday 12-1 in 2-151. Leader Por-

ter. Sections 4, 13. Thursday 12-1 in 2-139. Leader Brewer. Sections 9,11.

Thursday 12-1 in 2-135. Leader Gustaveson. Sections 10, 12.

INTERESTING ART EXHIBITION

An exhibition of envois and studies of Kenneth E. Carpenter, Fellow of the American Academy in Rome, 1912-15, and a graduate of the Institute, is now being held daily in Rogers Exhibition Hall, from 9.00 to 5.00 o'clock, to which the public is invited.

The modeling class held in the evening under Mr. Wilson, a well known sculptor of Boston, began last week in Rogers. This course is optional for is stationed at the proving grounds at fellows in the department and is held once a week.

Walker Memorial Dining 200MS

Are Open to All Tech Men NOW

Open Daily and Sunday

Robert A. Boit & Co. 40 Kilby Street **Boston**

INSURANCE OF ALL KINDS



STONE & WEBSTER

FINANCE public utility developments

BUY AND SELL securities.

DESIGN steam power stations, hydroelectric developments, transmission lines, city and interurban railways. gas plants, industrial plants and buildings.

CONSTRUCT either from our own designs or from designs of other englneers or architects.

REPORT on public utility properties. proposed extensions or new projects.

MANAGE railway, light, power and das companies.

NEW YORK BOSTON CHICAGO



BLUE PRINT PAPER Complete stock of

Manufacturers of

Drawing Materials

SPAULDING-MOSS CO. **Drafting Room Furniture**

Tell Us Your Requirements Catalog on Request A. H. Spaulding '14

the into the .

from other colleges, men who have probably looked over the field in engineering needs, mechanical engineering stands second only to chemical engineering in the number of men who choose it for their option. These selections bear out in general, however, the tendencies shown by the full regis tration for the favorite options were, in the order named chemical en-

architecture next in order.

The Advantages We Offer

An efficient and courteous organization. progressive methods, large resources and three offices, conveniently located in different sections of Boston, combine to make the Old Colony Trust Company the most desirable depository in New England.

Capital and Surplus.....\$ 13,000,000

Total Resources over....... 165,000,000

Old Colony Trust Company 52 TEMPLE PLACE 222 BOYLSTON 5

Jordan Marsh Company

College Men the Country Over

Are Enthusiastic in Their Approval of

Society Brand Clothes

Should you not be a member of the Society Brand Family accept our invitation to join. You will be in excellent company.

Prices \$20.00 to \$47.50

Collins & Fairbanks Co.

Young Men's Hats, Coats, Caps, Gloves, Aviation Helmers, Hoods, Caps, Leather Coats

383 WASHINGTON STREET -:- -:-BOSTON

MILITARY COURSES

(Continued from page 1)

Laboratory: Mechanism Principles of Electrical Engineering; Electro Magnetism; Military Topography and Mar-Reading (1 hour); Infantry Drill, Mili-tary Calisthenics (1 hour); Field Signal Practice (1 hour).

The Third Year Course (5 hours per week) is as follows:-Principles of Electrical Engineering; Direct Current Machinery: Variable and Alternating Currents: Electrical Engineering Laboratory; Heat Engineering: Thermo Dynamics; a Special Course in Telegraphy, Radio Telegraphy and Submarine Telegraphy: Infantry Drill: Military Calisthenies (1-2 hour): Field Signal Practice (1 1-2 hours).

The Fourth Year Course (5 hours per week) is as follows:—Principles of Electrical Engineering; Alternating Currents; Power Transmission; Electrical Engineering Laboratory: Telephone Engineering; Engineering Laboratory; Infantry Drill, Military Calisthenics (1-2 hour): Field Signal Practice (1 1-2

The hours allotted to a subject per week need not necessarily be adhered to, providing the total time given to the subject in the year is equal to the prescribed time per week multiplied by the number of weeks of the school year.

The Field Signal Practice scheduled will include instruction in sending and receiving messages with flag, torch, lantern, heliograph, ordinary telegraph, field buzzer and radio telegraph; the construction of field telegraph lines and field cable and buzzer wire lines with use of switchboards, relays, etc.; the faulting and tapping of lines and testing to discover faults in lines; general line and cable testing; setting up field radio sets and use of same; setting up field telephone lines with field exchange service; fire control apparatus including testing of same.

The course will also cover the use and solution of military eigher.

The complete tentative schedules for the Coast Artillery students follows:

COAST ARTILLERY

1. The course herein described is provisional. If additional requirements are found necessary later, students enrolled for the Advanced Course will be relieved from their obligation if they so elect.

the following courses:-Civil Engineering, Options 1 and 2: Mechanical Engineering; Mining Engineering, Ontions 1. 2, 3; Architecture; Electrical Engineering; Chemical Engineering; Sanitary Engineering: Naval Architecture: Electro-Chemistry: Engineering Administration, Options 1. 2, 3.

The courses for the third and fourth years are composed partly of straight military work and partly of professional engineering work. The professional parts of the course are not the same for men in the different professional per week). courses above specified, as the Coast Artillerv needs many specialists and some of the graduates will be best fitted for duties in which Civil Engineering training is of most value, some for Mechanical Engineering and some for Elec-

trical Engineering, etc.

It is understood and required that for students enrolled in this course in taking the regular prescribed Academic courses, these courses will be so arranged wherever possible by demonstrations, problems, etc., to develop the military aspects of the subject as may be mutually satisfactory to the Professor of Military Science and Tactics, and the authorities of the institution, and that further the list of subjects for selection for thesis and research work by members of the Senior class shall include such military subjects needing study and investigaion as the Chief of Artillery may submit, and that copies of such of these theses as may be selected by students shall be furnished the Chief of Artillery.

BASIC COURSE

The First Year (3 hours per week) is as follows:-Physical Training; In-Soldier, Squad and Company, close and extended order; Ceremonies; Inspections; Muster; Honors and Salutes.

Nomenclature, care and the use of the U.S. Magazine Rifle, to include sighting and aiming drills, gallery practice, and Special Course "A."

The Second Year (3 hours per week) al Drawing; Materials; Structures.

is as follows:-Seacoast Engineering, to include the determination of true azi muths, and the principles involved in the location of pintle centers and orientation of gun and mortar azimuth circles, and levelling; Military History of the United States and military obligations of citizenship; First Aid; Signalling; Army Regulations and Company Administration; Interior Guard Duty; Manual for Courts Martial; Field Service Regulations and Rules for Land Warfare; Army Organization, to include the tactical and administrative organization of the Coast Artillery Corps and its relation to other branches of the service (1 hour per week); Military Topography, Map Reading and Sketching (1 hour per week); Coast Artillery Drill, to include general principles; Assignment of Personnel; Company Formations and Marching Manoeuvres; the Battery Command; Fire Direction: the drill for at least one gun of the Major Armament and for a mortar (1 hour per week).

The Third Year Course (5 hours per week) is as follows:-Coast Artillery Material, to include a general knowledge of guns and mortars and their carriages; the use, care and adjustment and operation of fire control instruments; the care and operation of power and electrical appliances; the purpose for which used; storage and handling of explosives, projectiles, primers and fuses: cordage: and the use of gins,

shears and jacks (1 hour per week). Coast Artillery Drill, to include general principles; Assignment of Personnel: Company Formations and Marching Manoeuvers: the Battery Command; Fire Direction: the drill for at least one gun of the Major Armament and for a mortar: Service at Emplacements; and Coast Artillery Inspection (1 hour

The above is required for all men enrolled in this course and the following additional work will be covered:

For Students in Civil Engineering, Options 1 and 2:-Applied Mechanics: Surveying; Elements of Electrical Engineering: Electrical Engineering Laboratory; Railroad Engineering and Drawing: Materials; Structures; Testing Materials Laboratory: Geodesy (3 hours per week).

For Students in Mechanical Engineer ing:-Applied Mechanics: Surveying: Mechanical Engineering Drawing: Ma-2. Eligibility is confined to students chine Drawing: Mechanism: Elements whose schedules for four years' work of Electrical Engineering; Engineering are arranged with a view to completing Laboratory: Woodwork and Pattern Making: Vise and Bench Work: Heat Engineering (3 hours per week).

For Students in Mining Engineering, Option 1:-Applied Mechanics; Mining Engineering: Elements of Electrical En-

gineering; Forging (3 hours per week). Option 2:-Applied Mechanics: Machine Drawing: Mechanism: Mining Engineering: Elements of Electrical Engineering; Forging (3 hours per week).

Option 3:-Applied Mechanics; Elements of Electrical Engineering: Electrical Engineering Laboratory (3 hours

For Students in Electrical Engineering:-Applied Mechanics: Heat Engineering: Priniples of Electrical Engincering; Electrical Engineering Laboratory (3 hours per week).

For Students in Chemical Engineering: — Applied Mechanics; Machine Drawing: Heat Engineering: Chemical Engineering (3 hours per week).

For Students in Sanitary Engineering:-Applied Mechanics; Surveying; Railroad Engineering and Drawing; Matterials; Mechanism; Structures; Testing Materials Laboratory (3 hours per

For Students in Electro-Chemistry:-Principles of Electrical Engineering; Electrical Engineering Laboratory; Heat Measurements: Mechanism (3 hours per

For Students in Engineering Admin istration, Option 1:—Applied Mechanics; Elements of Electrical Engineering; Electrical Engineering Laboratory; Heat Engineering; Structures (3 hours per week).

Option 2:-Applied Mechanics; Elements of Electrical Engineering; Heat Engineering; Machine Drawing: Mefantry Drill, to incude the School of chanical Engineering Drawing (3 hours per week).

Option 3:-Heat Engineering: Mechanical Engineering Drawing; Metal Turning: Theoretical Chemistry.

For Students in Architecture, Option 2:--Applied Mechanics: Electric Wiring Buildings; Structural Design; Structur-

For Students in Naval Architecture: Applied Mechanics; Heat Engineering; Engineering Laboratory; Foundry; Vise and Bench Work.

The Fourth Year Course (5 hours per week) is as follows:-Coast Artillery Material, to include a general knowledge of guns and mortars and their carriages; the use, care and adjustment and operation of fire control instruments; the care and operation of power and electrical appliances; the purpose for which used; storage and handling of explosives, projectiles, primers and fuses; cordage: and the use of gins, shears and jacks (1 hour per week).

Coast Artillery Drill, to include general principles: Assignment of Personnel: Company Formations and Marching Manoeuvers; the Battery Command; Fire Direction: the drill for at least one gun of the Major Armament and for a mortar; Service at Emplacements; and Coast Artillery Inspection (1 hour per week).

The above is required for all men enrolled in this course and the following

additional work will be covered: For Students in Civil Engineering, Options 1 and 2:-Bridge Design; Engineering Laboratory; Foundations; Heat Engineering; Hydraulies and Sanitary Engineering; Structures (3 hours per week).

For Students in Mechanical Engineering:-Applied Mechanics; Dynamics of Machines; Elements of Electrical Engigineering; Electrical Engineering Laboratory: Foundations: Hydraulics: Machine Design: Machine Tool Work; Power Plant Design; Engineering Laboratory (3 hours per week).

For Students in Mining Engineering, Option 1:—Electrical Engineering Laboratory: Elements of Electrical Engineering: Testing Materials Laboratory; Hydraulies (3 hours per week).

Option 2:-Elements of Electrical Engineering; Electrical Engineering Laboratory: Heat Engineering: Hydraulies: Metal Turning: Engineering Laboratory: Foundry (3 hours per week).

For Students in Electrical Engineering:-Electrical Engineering; Electrical Engineering Laboratory: Engineering Laboratory; Hydraulies (3 hours per

For Students in Chemical Engineering:-Chemical Engineering; Elements of Electrical Engineering; Electrical Engineering Laboratory; Engineering Labpratory: Foundry; Hydraulies: Testing Materials Laboratory; Machine Tool

Work (3 hours per week).
For Students in Sanitary Engineerng:-Engineering Laboratory;; Heat Engineering; Hydraulics; Structural Design; Structures; Hydraulic Laboratery (3 hours per week).

For Students in Electro-Chemistry:-Alternating Current Machinery; Elec rical Engineering Laboratory; Electrical Transmission and Distribution: Heat Engineering (3 hours per week).

For Students in Engineering Admin istration. Option 1:-Foundations; Hydiaulies; Structural Design; Structures; Hydraulic Engineering; Hydraulie Laboratory: Testing Materials Laboratory (3 hours per week).

Option 2:-Electrical Tranmission of Power: Electric Engineering Labora tery: Engineering Laboratory: Hydraulics: Machine Design; Testing Materials Laboratory (3 hours per week).

Option 3:-Applied Mechanics; Engincering Laboratory; Hydraulies; Elements Electrical Engineering; Electrical Engineering Laboratory (3 hours per week).

For Students in Architecture, Option 2:--Applied Mechanics; Foundations; Structures; Testing Materials Laboratory: Hydraulies; Concrete Design; Structural Design (3 hours per week).

For Students in Naval Architecture: --Applied Mechanics; Elements of Elec-trical Engineering; Electrical Engineering Laboratory; Engineering Laboratory; Hydraulies: Machine Tool Work (3 hours per week).

Notwithstanding, the regular courses in the subjects specified may take more than the allotted time, it is understood that proficiency in these courses is necessary for graduation in the Reserve Officers' Training Corps course.

The time allotted to drill and strictly military work will be rigidly adhered to, but it is understood that on account of difficulty in carrying on some of the work under present conditions that it will be considered a compliance with a schedule calling for one hour per week, providing the total time equals the number of weeks of the school year muliplied by the scheduled time per week, and it is further understood that if it is found impossible to carry out any minor detail of the military work as scheduled, the student will still be allowed to graduate providing such omitted details are found by the Professor of Military Science to be impossible on account of impossibility of procuring or improvising necessary equipment.

DETAILED TO INSTITUTE

Captain John H. Alden, a member of the Aviation Section of the Signal Officers' Reserve Corps, has been assigned to the School of Military Aeronautics at the Institute.

DU PONT AMERICAN INDUSTRIE



Chemical Products

For Factory and Laboratory



Acetic Ether Acetic Ether
Amyl Acetate
Aniline Oil
Brouzing Liquids
Collodion
Dark Creosote
Dead Oil
Dimethyaniline
Dintrophonol

Dinitrophenol Ether, U. S. P.—1900, and Anaesthesia Ethyl Acetate Flotation Oils
Iso Amyl Acetate, C. P.
Iso Amyl ATcohol, C. P. Lacquers Leather Renovators Leather Substitute

Leather Sunstitute
Solutions
Mantie Dips
Napthalene
Parlodion
Patent and Split Leather
Solutions
Pegamoid Aluminum Paint, Pitch PONTAR-A Road Making Material PONTOKLENE —

PONTOKLENE — For Cleaning Autos
PY-RA-LIN Enamels for Wood and Metal Refined Acetone Oil Refined Creosote Refined Fusel Oil Salicylic Acid Shingle Oil Sodium Acetate Soluble Cotton Solvent Naphthas Solvent Thinners Sulphur Black Sulphur Black Waterproof Cement Wood Preservatives

WE ARE the manufacturers of coal term ers of coal tar products. pyroxylin, and its solvents and many preparations in which these materials form the chief ingredients.

Our plants at Parlin, and signed especially to care for the Deepwater Point, N. J., are departicular requirements of the various industries in which our products are used, and they represent the most modern development in construction for the manufacture of these products.

Expert supervision and thoroughly equipped working laboratories which control our factory operations, assure UNIFORM QUALITY of the highest standard.

The Du Pont Company's large resources enable us to command the best available in technical skill, raw materials and unequalled facilities and these advantages place us in a position to offer the best possible in the three most important considerations of QUALITY, PRICE and SERVICE.

The technical skill and facilities of our laboratories are at the disposal of our customers, present and prospective, in working out any problems connected with the use of our products.

We invite your correspondence.

DuPont Chemical Works

Equitable Bldg.

New York City

DU PONT AMERICAN INDUSTRIES

E. I. du Pont de Nemours & Co. - - Wilmington, Del. Industrial, Agricultural, Sporting and Military Explosives Wilmington, Del Du Pont Fabrikoid Company - - -Leather Substitutes

Du Pont Chemical Works - - 120 Broadway, New York Pyroxylin and Coal Tar Derivatives

The Arlington Company - 725 Broadway, New York
Owned and Controlled by E. 1. du Pont de Nemours & Co.

Ivory Py-ra-lin, Auto Sh ceting, Cleanable Collars

Washington To Py-ra-lin, Property of the Collars Philadelphia, Pa. Harrisons Inc. Paints, Pigments and Chemicals

RHODE ISLAND TOOL CO.

WILLIAM C. DART '91, President

MANUFACTURERS OF

BOLTS, NUTS, CAP AND SET SCREWS, **SCREW MACHINE PRODUCTS**

QUALITY FIRST PROVIDENCE, R. I.

E. H. ROLLINS & SONS INVESTMENT BONDS

BOSTON 200 DEVONSHIRE STREET

NEW YORK

PHILADELPHIA

CHICAGO

DENVER

SAN FRANCISCO

LOS ANGELES

Edward W. Rollins-M. I. T. '71

MERRIMAC CHEMICAL CO. BOSTON, MASS.

Vol. 37. No. 56

CAMBRIDGE, MASS., THURSDAY, OCT. 25, 1917

Price Three Cents

ELECTRICALS HEAR OF CONSTRUCTION IN CAMP

Captain Canfield Tells of Methods Employed in Building Camp Devens—Two Trips for Society Next Week to Simplex Co.

IOINT MEETING TUESDAY EVENING

In telling of the many difficulties that were met and overcome in the construction of Camp Devens, Capt. E. C. Canfield. U. S. A., gave some interesting facts at the meeting of the Student Branch of A. I. E. E. last Monday afternoon. He described the sanitary precautions that were taken during the construction, thirty or forty thousand dollars being spent for this feature alone. The Italian laborers, who had decomposed to these conditions accustomed to these conditions. M. E. Goodridge and W. R. better than the Americans did, for most of them were accustomed to discipline, many of them having served in the Italian army. Among the nine thousand laborers there was only one case of an infectious disease. Firemen were imperted to keep down the fire hazards and a secret service was built up to suppress any labor agitations which might arise. In coping with the food problem, \$100,000 was spent on orders the first day. There were sixty-five working days and the men were fed what they wanted at cost.

One important feature, from an engineering standpoint, was the use of redwood pipes to carry the water supply and the sewage. These are bound with wire for different tensions and pressures and cost only one-third as much as cast iron when laid in the ground. It remains in good condition for fifteen or twenty years, and can be laid at the rate of one mile a day. Many New England contractors had never seen it before, according to Capt. Canfield. Motor driven pumps were used to pump the water, the electricity being furnished by a contractor upon Capt. Canfield's personal assurance that he would et the contract when it was awarded by the government.

The pipe gang always had material on hand twenty-four hours ahead of eut so that the plumbers had only to connect them. All the lumber was cut to the respective buildings. Besides the regular mess halls and bunk houses, a remount station for horses was built, and also a hospital for one thousand beds, equipped with all the latest paraphernalia. One encouraging aspect of the whole work was the attitude of the engineering profession. The engineers worked day and night, exhibiting the snivit that is necessary to win the war.

The Student Branch will run two trips to the Simplex Wire and Cable Company, the first of which will leave the Main Lobby at 1.45 o'clock today and the second at the same time Monday. Men desiring to go must sign up before that time on a slip posted at the office, 10-203, and must have their dues paid for the year.

(Continued on page 2)

TECHNOLOGY PHOTO

Picture To Be Taken Tomorrow Noon at 1.05 O'clock

The annual All-Technology photograph will be taken in the Great Court tomorrow noon at 1.05 o'clock, weather permitting. This is a picture which is taken of all students at the Institute and forms a permanent record for the undergraduates of their classmates and of the Institute itself.

Two years ago, when the taking of this photograph was first tried, there were about fifteen hundred men who posed" in Copley Square in front of the Boston Public Library.

Last year there were about sixteen nundred men in the picture, and while the enrollment at the Institute is less this season, the number who appear in the Great Court tomorrow noon will be

CROSS-COUNTRY TEAM WILL RACE HARVARD THIS SATURDAY

Team Will Be Chosen to Meet Dartmouth and for Intercollegiates

Technology will meet Harvard this Saturday afternoon in a cross-country race over the Belmont course. The race will start from the old High School building at 3.00 o'clock. Fifteen contestants will enter for each side and the first five men to finish will score.

The results of the Technology-Harvard cross-country race Saturday will definitely determine the personnel of the teams to compete against Dartmouth and in the Intercollegiates.

It has practically been decided that Technology freshmen will be permitted to enter Saturday's race. The men who will probably run for the Institute are as follows:—Captain Herzog, G. F. Halfacre. G. C. McCarten, J. M. Hanley, H.

COMPETITIONS FOR TECHNIQUE 1920 WILL START NEXT WEEK

The competition for Sophomores leading to the offices on the Business Staff of Technique 1920 will be started next week. Meetings of the candidates for the positions of Business Manager and Associate Business Manager of next year's year book will be held in the Technique Office next Tuesday and Wednesday, and actual work in the competitions will start immediately after field These competitions are open to Sonhomores this year in accordance with the changed plan for the election of the Business Staff of Technique which was recently adopted by the Institute Committee.

Although at the time the Technique Electoral Committee meets to elect the Editor-in-Chief of Technique, a competitor may be sure of a position on the Business Staff, this fact will not prevent his being a candidate for the position of Editor-in-Chief.

Successful competitors in the coming business competition will be considered assistants to this year's Technique Board, and at the time of the appear ance of Technique 1919, will be appointed to positions on the succeeding Board. time, and all the pipes were already The positions of Business Manager and Treasurer of Technique 1920 and the two positions of Associate Business at a railroad siding and sent marked Managers are to be filled by this compe-

> Candidates will meet in The Technique Office, on the second floor of the Activities Building opposite the Co-op., on Tuesday and Wednesday next week, at a time to be announced on the bulletin boards.

C. E. SOCIETY TO HOLD MEETING TOMORROW NIGHT

Professor Swain, who was detailed last summer by the Canadian Government to do work for them, will tell of his experiences in a talk upon "Railroad Valuations" at a meeting of the Civil Engineering Society in the Caf tomorrow night at 7.30 o'clock.

Professor Whipple, who spent some in Russia investigating sanitary conditions there for the Government, will tell of his work in a speech to be given under the auspices of the society as soon as he can obtain permission from the Government to give such information.

TAX DODGERS MUST PAY ADMISSION ON FIELD DAY

At the Institute Committee meeting yesterday afternoon it was decided that those who have paid their Student Tax should be admitted to Field Day without further charge. The Tax receipt, not the button, will serve as an admission ticket. Those who have not paid their Tax will be charged a regular admission, which will not be refunded on the subsequent payment of the Tax.

STUDENT TAX COLLECTORS

All men who hve been collecting the Student Tax should turn over to O. D. Burton, Treasurer of the Institute Committee, all money, receipt books and stubs, on Tuesday, October 30, between as high proportionally as it was last 4.00 and 5.00 o'clock, at the office of

BE GIVEN TONIGHT

Tech Show Management Will Act as Host to Undergraduates-Feature Part Enactment of "Not A Chance"

LAST YEAR'S COACH TO SPEAK

The management of the Tech Show is to be host to the undergraduates of the Institute tonight, when, at 8.15 o'clock, the annual Kommers Smoker will begin in the Banquet Hall of the Walker Memorial building. Final arrangements have been attended to and everything has been made ready for one of the most important of the undergraduate events during the Fall term at Technology. All students are invited to be present. In fact, so great is the nonularity of this smoker that it was deemed advisable to utilize the largest d'ning hall available at the Institute.



GEORGE B. HUTCHINGS, JR. Minager of Tech Show 1918

to be treated to an elaborate entertainment, followed by refreshments. The most striking feature of tonight's

amusement will be a partial reproducyear's musical company, enacted by the original members of the cast. The As in former years, the Kommers Smoker marks the inauguration of a new Tech Show season, and each year every effort is strained to insure success. Tonight the undergraduates are management of the Tech Show is using this as a means to acquaint freshmen and other new men at Technology with

the kind of play produced and at the same time to afford an evening's diversion. This partial presentation of 'Not a Chance is to be supplemented by several talks from the managers and others. Mr. William Duncan, last year's

coach and also a popular New York pro-

(Continued on page 2)

CAFETERIA SERVICE IN BUILDING '2 AMPLIFIED

Yesterday an amplified menu was introduced in the old Cafeteria in Building 2 so that, to a considerable extent, the service now availble in Walker Memorial can also be had in the Caf.

Provisions are being made to permit the use of one end of the dining room as a lounging and meeting place which will fill the want that arose when the old Civil Engineering Museum in Building 1 was taken over by the Army aviators. This room will be used as a congregating place for men at the Institute until Walker Memorial can be turned over in its entirety to the use of undergraduates.

RELAY TRIALS TOMORROW

Both freshman and Sophomore relay trials for Field Day teams will be held comorrow afternoon on the Field.

TICKETS FOR "LOVE O' MIKE" ON TECH NIGHT GOING FAST ALRO CLUB TO GIVE

Half of House Sold in First Two Days -Twenty Box Seats Left.

The sale of tickets for Tech Night for "Love O' Mike" at the Wilbur Theatre, November 2, is progressing rapidly. On the first two days about one half of the house was sold; there are, however, twenty box seats left. Tickets may be procured daily between one and two o'clock in the main lobby of building 10.

Special sections are being reserved for Seniors, and for the Sophomore and freshmen Field Day teams, but these reservations will be held until Saturday only; and on Monday and Tuesday the remaining tickets win be sold to anyone who wishes them, irrespective of class. No tickets will be on sale after Tuesday, except at the box office of the

COMPETITION FOR MONTHLY STARTS NEXT MONDAY NOON

The Technology Monthly announces a competition open to members of the three lower classes for positions on its staff and management. All men interested are asked to meet the managers of the different departments in the office of the Monthly, on the second floor of the Stone & Webster service building on Massachusetts Avenue, opposite the Co-op. at 1.05 o'clock, Monday, October 29. Owing to many of the older men, connected with last year's Monthly and elected to this year's board, having enlisted, a complete reorganization has been made necessary, thus creating an opportunity for rapid advancement. The competitions will run only a short time so all candidates will be required to sign up immediately.

MASS MEETING TO BE CALLED BEFORE FIELD DAY

Plan Decided Upon in Order to Arouse Enthusiasm

At a meeting of the Institute Committee yesterday afternooon, it was decided to hold a mass meeting before Field Day in order to arouse enthusiasm among the student body, and a committee was appointed to look after the course, the plans of the club call for arrangements. A recommendation was the inspection of nearby airplane facalso made that medical advice provided tories and, if possible, work on an actual on of portions of "Not a Chance," last for under the Health Insurance Law should only be given to those who have paid their student tax. Another inducement that should lead others to pay the tax is that all students who have paid the tax will be permitted to attend Field Day free, but it will be necessary for them to show their receipt at the gate.

TRIM FOR FIELD DAY STRUGGLE

Practice Games for Both Teams to Be Played Next Saturday

As Field Day approaches it becomes more apparent that this year's football contest between the Sophomores and freshmen will probably be the closest match that has ever been staged. While the freshmen exceed in speed and "pep," the Sophomores are superior in weight. The Sophomores have a uniformly strong team, although most of last year's men have left the Institute due to the war; while on the other hand the freshmen eleven is rather irregular in strength. J. R Wood, formerly of Exeter, is doing star work on the latter.

The 1920 team has suffered considerably from the lack of coaches, but at the last practice several Seniors offered their aid. On the contrary, the 1921 eleven is being well coached by H. L. Gleason and F. Wheland '21, the latter having been put out of active play by the dislocation of his shoulder

The Sophomore eleven has arranged a game for next Saturday with Concord High School at Concord, Mass. The freshman team will play Manchester High, at Manchester, N. H., on the same

The following men will go to Manchester:—Young, Merrill, c., Morrison, l. g., Bachman r. g., Beatty, l. t., Kitteridge, r. t., Mood, Bacher, end, Tucker, Hurley, q. b., Chalfin, Waterman, Banks, backs. | 8.00 P. M.-Dormitory Smoker in Caf.

GOURSE IN AVIATION

Work Will Parallel That Being Done in Government School-French Aviator to Tell of Experiences at Next Meeting.

OFFICERS TO BE ELECTED

Sounding the keynote of the club's efforts for the coming year as greater preparedness in the field of aviation, Charles H. Tavener '18, outlined a course of activities for the Aero Club in a talk before that organization at its first meeting held last Monday afternoon. He explained that all the facilities of the club would be directed this year to founding what would be practically a preliminary training for those interested in the aviation corps or in aeronautics in general. This was to be accomplished, he said, by providing a series of lectures bearing upon the construction and operation of airplanes.

In speaking of the prospects for the coming year Tavener said that the effort to get Secretary Daniels to speak before the club had failed at the last moment on account of the latter having to cancel his Boston engagement, but arrangemets have been made for Lieutenant Andre Morize, of the French Flying Corps, to give an illustrated lecture before the club on Tuesday evening, October 31, in room 10-250. Lieutenant Morize has seen service at the front and in his talk will tell of many of his experiences. Members of the Mechanical and Electrical Engineering Societies and of both of the Flying Schools at the Institute are invited to attend this meet-

In the course of instruction which will be provided for the members of the club, the chief aim will be to give the men an opportunity to gain information that they could not otherwise obtain except by taking the graduate course in aeronautics or by enlisting in the government service. The course will embrace the most important elements of aeronautics, such as "Gas Engine Design," "Engine Casting," "Currents in the Air," The instructors will be members of the Aeronautical Department of the Institute. Upon the completion of this machine itself.

The next topic brought up was whether or not the club should join the Aero Club of America, which had affiliated with it three other clubs in New England. The fact was emphasized that the club had its parallel for this action in the connection of other Technology societies with some national institution standing at the head of their particular fields. It was also mentioned that the elub might join the Society of Automobile Engineers, but final action was postponed.

The Club then voted to appoint the

(Continued on page 4)

NOTICE 10 NEWS MEN

The following men will please see the Managing Editor in The Tech office this noon at 1,00 o'clock sharp: Barriger, Batchelder, Bauer, Edwards, Felsenthal, Gardner, Green. Kreeger.

CALENDAR

Thursday, October 25, 1917 1.45 P. M.—Trip of Student Branch of A. I. E. E. to Simplex Wire and Cable Co. Meet in Main Lobby.

5.00 P. M.-Freshman Tug-o'-War Practice, Tech Field.

8.15 P. M.-Kommers Smoker in Banquet Hall of Walker Me-

Friday, October 26, 1917 5.00 P. M.—Freshman Tug-o'-War Practice. Tech Field. 7.30 P. M.—Civil Engineering Society

Meeting in Caf. Saturday, October 27, 1917 2.00 P. M.-Freshman Tug-o'-War Prac-

tice. Tech Field. 3.00 P. M.-Tech-Harvard Cross-country Starts from Old High School Building.

Kommers Smoker Tonight in Walker Memorial.—Learn all about Tech Show 1918



Entered as second-class matter, September 16, 1911, at the Postoffice at Bos n. Mass., under the act of Congress of March 3, 1879.

Published twice a week during the college year by students of the Massachuwatta Institute of Technology.

MANAGING BOARD

	=
Paul C Leonard '17	.Chairman of the Board
Ceorge B. Hutchings, '18,	General Manager
Kenneth Reid '18	Editor-in-Chief
W. Raymond McKenney '19	Managing Editor
Lawrence Winant, '20	Advertising Manager
O. Donn Burton '18	Circulation Manager
John W. Meader '19	Treasurer

IN CHARGE THIS ISSUE

·C.	B.	Capps	'20	Night	Editor
J.	H.	Coyle	'20Assistant	Night	Editor

THURSDAY, OCTOBER 25, 1917

A MESSAGE TO COLLEGE STUDENTS

(By the Patriotic News Service, National Committee of Patriotic Societies.) → HE defeat of the German autocracy is not only the task of armies and navies but of everyone who believes in the principles of democracy. It is not alone our soldiers and sailors who are fighting Germany, but every true American should also be doing what he can to bring about a speedy victory.

Young men and women in our universities and colleges will soon be playing a very real part in our national life. You are preparing yourself now for future usefulness. You should remember always that your first duty is to the nation and that you will find your highest personal success in public service.

The fact that your country is at war imposes on you a double duty to study as hard as possible and to make yourself as valuable economically as you can. Live up to your duty as well as the men in the trenches are living up to theirs.

There is, however, one way you can be of immediate assistance to your country. You can purchase and sell Liberty Bonds. Put what money you can spare into the safest investment in the world. The cash, into which you can at any time convert these interestbearing bonds, may prove most useful when you are starting to earn your own living. Buy Liberty Bonds and urge others to buy them!

CLEAN UP THE BULLETIN BOARDS.

E note with pleasure that the Bulletin Board Committee has made a definite ruling as to the kind of matter which may appear on the various boards. The condition of the boards to date has been a disgrace to the Institute and there is no time like the present for a thorough housecleaning. No better lesson could be given the violators of the rules than to sweep the boards clean of all posters and announcements which are not of standard size, and it is to be hoped that the committee will take this vigorous action. It may inconvenience a number of people for a few attend, only those who have their standays, but it will not be long before they will become accustomed to dard dues receipt will be admitted. the new conditions and the Institute may cease to be ashamed of its most conspicuous publicity medium.

ALL-TECHNOLOGY PICTURE

71TH one month of the Institute year already gone, the spirit of co-ordination and college friendship should be strong enough to make the All-Technology picture a thor- at 6.30 P. M., followed by the regular ough success. It should be not only a duty, but a pleasure as well, | meeting at 8.30 P. M. to participate in this annual event, open free to all—and there is no doubt that permanent record of this type is one of the easiest ways in the uncertain future to live again for a few spare moments the happy (and sad) experiences of college life. If you do not wish to purchase a copy of this photograph yourself, you owe it to your fellow students who plan to have this reminder for the days to come, to be in front of the Institute tomorrow noon—so that the film will have the greatest possible meaning to these purchasers. Here is the golden opportunity for you to do your share without the preliminary digging down for funds.

KOMMMERS SMOKER

ONIGHT, Tech Show will start its annual activity with the Kommers Smoker. In spite of all the handicaps which now exist, the management will endeavor this year to continue the precedent of former years and produce Tech Show 1918. This year, more than ever, the hearty co-operation of every Institute man is needed to insure the success of the show. Freshmen, and others who do not know what Tech Show is, will do well to attend the smoker. In fact every Technology undergraduate who is interested may spend a profitable and enjoyable evening by being present. An activity which does so much to help other activities at Technology, and which leads all others in establishing good fellowship among the students, should not suffer from lack of support. It has not done so in the immediately preceding years and ority committee consists of seven mema well attended smoker will give evidence that it will not do so bers of the Council of National Defence in this critical one. Everyone is invited: all that is asked is and will decide what tasks are to be that you be interested enough to lend your presence, and you are Morse has left Boston to take up his assured of an interesting evening.

ANNUAL DINNER OF CLASS OF 1905 HELD LAST FRIDAY

At the annual dinner of the class of 1905, held at the Boston City Club last Friday evening, George C. Thomas '05, who has just returned from Russia, told of some of his experiences in that country. In a summary of the conditions in that country, he said:-

"Conditions in Russia are not as bad as they are generally supposed to be. Democracy, the object of their recent revolution, has been partially attained; but the government has come into the hands of a committee which has gone to extremes. The powers have been overthrown without any new organization adopted. In the great manufacturing plants managers were thrown out and delegates sent to a convention, where a committee was elected to rule the whole of Russia. This committee, called the Workingmen's and Military Council, was composed almost wholly of Germans under assumed names. Upon investigation it was found that, of the twenty-one leaders, seventeen were not Russians at all, but that a great part of them were Germans. In this way, Russia had thrown aside monarchy only to get worse rulers.

"In the army conditions were very bad, for, with discipline thrown to the winds, the officers could no longer lead the men. The committee had declared that no order which a soldier did not like must be obeyed, but the case would be referred to the committee. This ruling caused an utter demoralization of all law in the army,

Mr. Thomas expressed his belief that the Russian people would find a new method of government which would really give them democracy.

KOMMERS SMOKER TONIGHT

(Continued from page 1) ducer and playwright, will give a short talk, while R. H. White, '16, author of the Tech Show 1916, will acquaint the audience with some of the interesting situations in that show.

General Manager G. B. Hutchings, '18, and several of the other managers of this year's show will speak of the organization of this branch of undergraduate activity. Following out the main purpose of the smoker, the management will also explain what has so far been accomplished and announcements will be made concerning the approaching competitions for cast, chorus, and direction of the play.

The Tech Show is put on during Junior Week in the Spring, and performances are not only given in Boston and vicinity, but also in Northampton and Providence.

ELECTRICALS HEAR OF CONSTRUCTION IN CAMP

(Continued from page 1) Next Tuesday evening at 7.30 o'clock in conjunction with the Aero Club and the Mechanical Engineering Society. A meeting will be held in 10-250, at which time Lieutenant Morize will give a talk on "Engineering in Modern Warfare," illustrated with slides. On a count of the number of men who will probably

TECH CLUB OF PHILADELPHIA

The Technology Club of Philadelphia announces that their monthly meetings will be held on the first Wednesday of the month at the Engineers' Club, 1317 Spruce Street, Philadelphia. On these days there will be an informal dinner

The next meeting will be held on Wednesday evening, November 7. Mr. Joseph Hayes, typographic expert with the Lanston Monotype Company, will speak on "Printing, Its Art and Science." The paper will also include descriptions of composing machines and type and rule easters. Mr. Hayes was formerly secretary to the Boston Ty-pothetae and to the Philadelphia Typothetae, and is a former chairman of the American Coast Commission. Mem; bers of the Engineers Club and affiliated societies are welcome.

At the December or January meeting. Dr. Hollis Godfrey '98, president of the Drexel Institute, will speak on the work of the National Council of Defence.

NATIONAL DEFENCE COUNCIL APPOINTS INSTITUTE MAN

Everett Morss '85, at present a member of the Executive Committee of the Institute, has recently been appointed a member of the priority committee of the Council of National Defence. Mr. Morss is widely known and has been connected with Simplex Wire and Cable Company for thiry-two years. The prifirst accomplished by the council. Mr. new duties in Washington.

Custom Tailoring

WE EMPLOY NO HIGH PRICED SALESMEN TO **SOLICIT YOU**

When a man purchases once we rarely lose him as a customer.

Why?

Because we have always been able to give quality by supervising the manufacturing in our own workroom.

Because our prices are low for the kind of suits we build. That is due to low selling expense.

Our Wish

is that you will investigate before ordering your suit or overcoat.

Harvard Cooperative Society

Jordan Marsh Company

College Men the Country Over

Are Enthusiastic in Their Approval of

Society Brand Clothes

Should you not be a member of the Society Brand Family accept our invitation to join. You will be in excellent company.

Prices \$20.00 to \$47.50

Tech Students

CAN BE CLOTHED TO THEIR COMPLETE SATISFACTION ----BY-

MACULLAR PARKER COMPANY Manufacturers and Retailers

Dependable Fabrics, Workmanship and Styles Garments Ready to Wear and to Measure

FINE FURNISHINGS

STETSON HATS

Officers Uniforms Army and Navy Made to Measure

BRANCHES AT AYER AND PLATTSBURGH MAGULLAR PARKER

400 WASHINGTON STREET

BOSTON

LOST—Tuesday, Oct. 17, Nothing will be more appreciated this on Tech Field, a gold penknife marked D. C. S. Finder than a good photograph. Mention TECH please notify D. C. Sanford, Jr., 44 Fenway, Boston. B.B. 3515.

Christmas by your relatives and friends and receive special rates.

> CHAMPLAIN STUDIOS 161-164 Tremont St.



AIR SERVICE JOURNAL

Devotea to the Interests of the Army and Navy Air Services

Prints, every Thursday, all the news of the air services, personal activities, foreign events, developments in the in dustry, notes of the flying fields, spe cial articles on military and naval aeronautics, photographs of aerial happenings throughout the World, progress and achievement in brief and attractive

53 yearly; Foreign \$4. 10 cents a copy Address

AIR SERVICE JOURNAL

120 West 32nd St, New York





Boston

The one hotel in Boston where the college spirit always prevails.

The Italian Room is a new note. Try it. Italian dishes prepared by an Italian Chef.

Supper, Dancing, 9 to 1. Lenox Bary's Orchestra puts song in your heart and wings on your feet.

L. C. Prior, Managing Director.

Hotel Brunswick under same manage-

CORDAGE and TWINE



Samson Cordage Works BOSTON, MASS.

FRANK COHEN Military Tailor

MASS. INSTITUTE OF TECH. ARMY AVIATION SCHOOL Officers Uniforms a Specialty Tel. Cambridge 6900

Technology Men in **National Service**

Names of Technology men in service, their addresses, military rank, etc., are urgently needed by Technology organizations which are endeavoring to keep in touch with all such men.

The Alumni office at the Institute is compiling a list which is later to be published in pamphlet form. The T. C. A. is also recording data of a similar nature. What they all lack most at the present time are addresses.

All records sent in to The Tech will be published and sent to each of these parties as well as to every Technology organization throughout the world.

You owe it to the Institute, to your classmates, and to your friends to send any information of this character to the Managing Editor, The Tech, Massachusetts avenue. Cambridge, Mass.

Class of 1892 L. BURRAGE, Red Cross Servian Commission. Now in Servia.

Class of 1895 MAJOR P. M. CHURCHILL is commanding the 2d Battalion, 304th Reg. of Engineers, located at Camp Mead, Admirald, Md.

T. H. WIGGIN, Capt. of Engineers. Now in France working in connection with water supply problems for new U.S. camps.

Class of 1904 R. HALE, Major of the old Battery A, is now in France.

Class of 1909 T. C. DESMOND is interested in construction of steel ships for the Government.

Class of 1910 D. W. PHELPS, secretary of Ship Protection Board.

Class of 1914 G. A. BEACH is with the Ambulance

Section of Amer. Exped. Force. R. C. DOREMUS is interested in gun

carriage production.

J. WHITE drove an ambulance on French front. Has received Croix de

Class of 1915 D. B. BAKER is a prov. 2d Lieut. 30th Reg. Inf., Syracuse, N. Y.

D. BELCHER joined the Ambulance the French chasseurs. Corps. Is now in France,, and has received a medal for bravery.

F. H. BOYNTEN, 1st Lieut., U. S. Engineers. Now stationed in Texas. R. D. GLADDING, 1st Lieut., E. R. C.

Training at American University. E. A. TEESON is superintending the construction of observation balloons. Class of 1916

T. C. ATCHISON, graduate of U. S. Mil. School of Aeronautics, Ohio State Univ. Was with Aviation Section of Signal Corps, U. S. A. Now with Royal Flying School in Canada.

R. G. BERGER enlisted in U. S. N. P. H. BUXTON enlisted for foreign

ervice in Ordnance Dept F. CLARKSON is with 11th U. S.

Engineers, now in France. T. W. LITTLE has been commissioned 1st Lieut. O. O. R. C. Reported for duty at Springfield Armory, Mass. Also qualified for 2d Lieut. Reg. Army, C.

G. SUTHERLAND is in Aviation Sec-

tion, Signal Corps, France. V. YOUNG, 2d Lieut. O. O. R. C. Stationed at Ordnance Supply Depot, Yaphank, L. S.

Class of 1917 D. E. BELL, 1st Lieut. 39th Infantry, Syracuse, N. Y.

T. Z. HAVILAND, 1st Lieut., Army Ordnance. F. S. HUBBARD, aviation draftsman,

Washington, D. C. P. L. HUNT, 1st Lieut. Amer. Exped. Force. Supply Co. 102d Field Artillery,

France. J. T. LEONARD, Senior 1st Lieut. 303d Inf. Camp Devens, Aver. Mass. W. J. LITTLEFIELD, commissioned Lieut. Is attache of Ordnance Dept. at

Washington, M. L. MEANS, at Army Aviation School, M. I. T.

E. M. NEWTON, Coast Art. Corps. S. R. STRIBLING, 2d Lieut. C. A. C. At Fortress Monroe, Va.
LEROY A. SWAN, 1st Lieut. Army

Aviation School at M. I. T. W. C. WOOD, 1st Lieut. Army Avia-

tion School at Technology.
R. COLLIER, with 201st Engineers, now stationed in France.

Class of 1918 E. B. GAILLAC, enlisted July, 1917, as private in the 101st U. S. Engineers. Amer. Exped. Force. Now in France. E. R. HATTEN, Ensign U. S. N. R.

E. A. MEAD, 2d Lieut. 47th Inf., Syracuse, N. Y. Class of 1919 R. W. DURLAND, with French Army. In transport service.

J. W. GIBSON, R. O. T. C., N. E. Division, Plattsburg, N. Y. C. H. HEIN, was with Section 66 of

ALUMNUS TELLS OF LIFE "OVER THERE"

The Tech has received from C. W. some such place, and then lined the Loomis '16 several letters that explain some of the interesting details of military life abroad. Loomis is now in France, acting as a sergeant in the Railway Section, Engineer Corps of the United States army, and has had a fine opportunity to see many of the sidelights which are hidden to privates in

These letters will be printed from time to time, as space permits.

August 16, 1917.

All hail, all hail, we have marched before the king and queen, to say nothing of such lesser lights as Admiral Simms, Ambassador Page, and the British cabinet, and unless I'm very much mistaken, we did ourselves proud. All London, it seemed, was out to see usthe street for miles were lined with throngs and throngs of people. Crowds turned out to see the "Sammies" as we are caned here—and to watch the first parade of foreign troops under arms that has entered London since William of Orange came over to take the throne.

We were lined up for battalion drill what we were up against, told that England was to judge the American army by the showing four regiments of raw recruits made, and from the results the Major certainly got it across. Our company, never before capable of standing at attention without some book talking or turning around every two minutes, or of marching in step for more than a hundred yards, that same company marched through eight miles of London streets and never so much as winked an eye. Every head up and looking straight ahead, every man in step and not even a smile. Today's London papers called us a "stern" crowd. They little knew that instead of worrying about going to France, or being afraid of having to fight, what was the real cause of the "stern" look was the deathly fear of getting out of step.

We were given a wonderful reception American flags almost as numerous, if no more so, than the English, cheers every minute, and anything we wanted in the way of eats and such things. They took us to Wellington barracks for a meal before the parade started and fed us on ham and eggs, the best feed we have had since we left the boat. They fed us again in the Palace Park, or

the Amer. Field Service. Detailed to

J. W. HOMER, JR., Naval Aviation School at Technology. A. E. PAGE, 2d Lieut. P. M. C. Train-

ing School, Camp Lee, Va.
WM. PICKNEY, JR., Naval Reserve,

Q. M. C. On U. S. S. Spartan, Mine Sweeping Section. J. G. STROBRIDGE, 2d Lieut. Field

Artillery, Co. M, Fort Leavenworth. J. B. WOODWARD, in the Engineer Corps. Co. E, 301st Engineers, Camp Devens, Ayer, Mass. Class of 1920

W. H. BROWN, at Naval Aviation School at M. I. T. H. C. BUTTON, U. S. N. R. at M.

con release R. V. A. HUBBELL has enlisted in one of the Ambulance Units now train-

ing at Allentown, Penn. A. D. NELSON, Naval Cadet School, Annapolis, Md.

G. STUART, Amer. Exped. Force. Now in France.

E. A. TAYLOR, with Y. M. C. A. Camp Sections.

The following men have been received as visitors at the Technology Club of Paris: from Yale: K. S. Ulrich '17, R. Evans, Jr., '11, W. M. Coffin '00; from Harvard: F. T. Lord '97, H. N. Partridge, Jr., '17, G. H. Harrington '14; from Newark Tech: W. F. Kappen '15; from Hobart: H. C. Evans 118; from Lehigh: L. G. Madge '17; from Oberlin: L. G. Barthold '19; from Williams: W. C. Powell '19, M. S. Caldwell '17, B. Hamlin '17; from University of Illinois: G. Morehead '19; from Leland Stanford: G. L. Goodell; from Tufts: H. B. Inglis '06; from Northwestern: E. N. Ware '19.

Then men who have just registered at the Technology Club of Paris are: S. Burrage, R. H. Ranger, J. H. Sinclair, E. P. Brooks, E. O'Neil, R. H. Scannell, C. D. Hunt, J. M. White, and R. B. Wells,

Send for

THE SIMPLEX MANUAL

streets just as thick as ever when we started back to the station. A wonderful day, long to be remembered and one which we did not for a minute regret, even through the last six miles from

the train back to camp, after we had already done fourteen miles or there-

August 19, 1917. "Somewhere in France"—no longer

that mythical phrase we have read so often at the heading of a war dispatch, or seen flashed on the screen in Pathe Weekly movies, rather now a stern reality, brought home to us in an almost infinite number of incidents each and every day. France, the France of peace times, has been turned into one huge military camp, the streets of the only city we have so far been privileged to see are filled with troops from every corner of the world. Australians, New Zealanders, Canadians, negro troops from the West Indies, Chinamen doing day labor, Indian troops, English Tommies, and no small number of Ameri-Ans rub shoulders on the streets with the afternoon before we went and told the native French. Civilians, that is, male civilians, are few and far between. They consist for the most part of youngsters and old men.

So far as our own experience goes, it is too early to try to say very much about the real state of affairs. So far as France is concerned, about all we have so far seen is the strain that shows on the face of every French man or woman you see. The only cheerful faces, those that show no signs of trouble, are those of the children, too young to realize, what it all means. From talking with the "Tommies" who have been "up the line" one is impressed very firmly with the idea that while they are all very, very sick of the war, they want to go on until the Germans are very thoroughly licked. They feel that to stop before that is to have spent these three years fruitlessly. Like any conscript army, or for that matter, like any army, the "Tommies" are of all sorts, some who rival the toughest of our own outfit, perhaps even outdo them, others whose clear enunciation and perfect English comes as a cool refreshing east wind on a hot day in Beston and once more makes one realize that the army isn't all as it sounds from a distance.

We have been having some small tastes of what it means to be an enlisted man in the U.S. Army, night trips with little or no opportunity to sleep, camps called "rest camps," where the word "rest" has certainly been given a new meaning, something quite different from what the Century would give it, meals that are decidedly what one hears about as army meals and sometimes almost none of these. Six feet of hard pine board, wide enough for breathing space, has become a luxury rather than a hardship. An army cot would feel like a feather bed. A bathtub would be even more of a curiosity. The old saying, "cleanliness is next to Godliness," may be all very well in the army, but unfortunately they place both of them well down in the scale.

We all went down to the city last night and enjoyed one real meal, and that helped a good deal, although it hurt a little to realize that because we were enlisted men we were barred from the best hotels. It is not altogether pleasant to have your status in society determined by the uniform you wear. I wonder if American hotels will arrive at that same point as a result of the huge armies they are raising. It would indeed seem funny to have the headwaiter at the Lenox tell me I couldn't come in.

ORCHESTRA CONDUCTOR APPOINTED FOR THIS YEAR

At the rehearsal of the M. I. T. orchestra last Monday, C. Levon Ekseigian 20 was appointed conductor for the coming yer. D. W. MacArdle '18, who founded the orchestra in 1915 and who has been leader for the last two seasons, will be unable to keep this position through lack of time.

The orchestra will hold its rehearsals every Morday and Thursday at 5.00 o'clock.

All Walker Memorial Dining Rooms

Are Open to All Tech Men NOW

Open Daily and Sunday

Robert A. Boit & Co. 40 Kilby Street **Boston**

INSURANCE OF ALL KINDS



STONE & WEBSTER

FINANCE public utility developments.

BUY AND SELL securities.

DESIGN steam power stations, hydroelectric developments, transmission lines, city and interurban railways, gas plants, industrial plants and buildings.

CONSTRUCT either from our own designs or from designs of other engineers or architects.

REPORT on public utility properties, proposed extensions or new projects.

MANAGE railway, light, power and gas companies.

NEW YORK BOSTON CHICAGO

Bouvé Sterling

\$4.00 to \$7.00

108 Summer Street

13 Water Street

14 Spring Street

99 Washington Street

122 Washington Street

201 DEVONSHIRE ST. BOSTON CHICAGO SAN FRANCISCO

SIMPLEX WIRES AND CABLES

INSULATED WITH RUBBER, PAPER OR CAMBRIC

LANSINGH ASSISTANT DIRECTOR

Van Rensselaer Lansingh '98, has been elected assistant director of the American University Union in Paris. The Union is proving of use to many men from colleges throughout the United States. It is located in the Royal Palace Hotel and has the backing of fortyone American colleges. Its purpose is to serve as a club for members of these colleges and their friends who are in France on military service. Professor Nettleton of Yale is the director.

WHERE TO GET YOUR TECHS

Copies of The Tech may be had at The Tech office, the Coop, entrance of building 10 before 9.00 a. m., the Caf, the Walker Memorial, and The Tavern Lunch.

THE MANUFACTURERS MUTUAL FIRE INSURANCE CO.

of Providence, R. I. Specializes in

Fire Protection

and in Factory Mutual Insurance

JOHN R. FREEMAN (M. I. T. '76)
President and Treasurer
BENJ. G. BUTTOLPH (M. I. T. '88)
Vice-President
Engineer in Charge of Chicago Office
EDW. D. PINGREE (M. I. T. '96)
Vice-President
Engineer in Charge of Providence Office
THEO. P. BOGERT
Secretary and Assistant Treasurer
ARTHUR A. LONGLEY (M. I. T. '08)
Resident Engineer at Chicago

UNIFORMS

for officers and enlisted men in all branches of the service.

STETSON ARMY SHOES

SHIRTS, ACCESSORIES

Branch Stores at AYER, MASS. PLATTSBURG, N. Y.



SCHUMAKER-SANTRY COMPANY

Power Plant Equipment }

BOSTON, MASS.

M. I. T. UNIFORMS and EQUIPMENT

Reasonable Prices



ROSENFIELD AND RAPKIN

MISS A. I. DARLING

TYPEWRITING MULTIGRAPHING

Wide experience in scientific work of all kinds. Thesis, reports, notes, etc. Foreign languages. French a specialty. Dictation taken directly at machine. Accurate and neat work. Reasonable

> 1388 Massachusetts Avenue Rooms 3 & 7 HARVARD SQUARE

> Telephone Cambridge 894-W

ALRO CLUB MEETING

(Continued from page 1)

Technology Monthly its official organ. This will mean tht a part of every issue of the Monthly will be devoted to the interests of aeronautics. There will be articles by members and by graduates, who are among the most prominent men in the country in the field of aviation, Mr. Harper has been assigned to represent the Club and several others will be named to help him. The club counts greatly on this to hold the interest of the Institute and the graduates in the work it has planned to do. Among the articles to be written will be a number pertaining to the flying schools.

The Aero Club has requested that the attention of the freshmen be called to the advantages of enrolling in order to obtain the benefit of the courses It is pointed out that they will secure the instruction of some of the best men in the Institute, wh aveo taught in the government schools. The last day for enrollment is November 1.

The annual election of officers will take place at the next meeting of the

Members of the club are invited to attend the address of Lieutenant-Colonel M. Rees, V. C, M C, before the Engineers' Club tonight at the Club's quarters at 2 Commonwealth Avenue The speaker has seen service on the western front and has ten German machines to his credit.

Men desiring to go should meet in a p. m., and enter the hall together.

MEN PICKED PROVISIONALLY FOR SOPHOMORE CREW

The following men have been provisionally picked to row in the Sophomorefreshman race on Field Day: Cafren, bow; Schildbach, 2; Moi-Ding, 3; Burroughs, 4; Noelke, 5; E. Wassen, 6; A. Wassen, 7; McNear. stroke; Givner, cox. These men are asked to come out at all regular practices from now on. The next practice is on Friday at 4.30.

DORMITORY SMOKER TO BE

HELD NEXT SATURDAY NIGHT The first dormitory smoker of the year will be held Saturday night at 8.00 o'clock in the old Caf. As this is the first event of the year, the combe present.

FRESHMAN WRESTLING CLASS TO START AFTER FIELD DAY

Starting the Monday after Field Day, Mr. Gracey, of the Department of Drawing, will conduct a freshman class in the History and Art of Wrestling. His course includes practical instruction in wrestling and a demonstration of the different holds. Captain Childs and ex-Captain Rounds will be on hand to assist and will show the application of the

Freshmen thinking of substituting wrestling for gymnasium work will register with Mr. Gracey, leaving name and weight. Three hours of wrestling will take the place of two hours of gym work. About fifty candidates have already enrolled, but only the best men will be retained and the rest will return to the physical training classes.

There is an excellent chance for freshmen to make the varsity team in the 135 lb. and heavyweight classes, as there is a dearth of material here.

Meetings will be held on Mondays and Thursdays from 4.15 to 5.15 o'clock and on one other day at the convenience of the instructor.

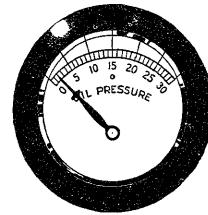
TECH CLUB OF N. Y. REMITS DUES TO ALL ENLISTED MEN

As the Technology Club of New York is remitting dues to all of its members in actual war service, there will be a considerable falling off in the receipts from the dues. Of the eleven hundred membody at the corner of Commonwealth | bers of the club one hundred and fifty Avenue and Arlington Street at 7.30 are now in the service; therefore it is desired that this number among the men who cannot go to the front join the club to take the places of the men who have gone. The Club has no initiation fee, a man becoming a member when he pays his first semi-annual dues.

FRESHMEN NEEDED FOR TUG-0'-WAR TEAM

More freshmen are needed for the tug-o'-war, according to Manager Boley. Practice will be held every evening, except Saturday, at 5.00 o'clock, and on Saturday afternoon at 2.00 o'clock. Only about fifty men have reported for the team, and they have appeared on the field very irregularly.

The Sophomores have about forty mittee desires as many as possible to men who are working regularly on the



All on Oil

Man is a machine—engine, boilers, cylinders and gears, and sometimes wheels and cranks. If you are going to get the best out of him you must rub him the right way, or in mechanical terms, "give

To an automobile oil is as necessary as air is to man. And as the man gets the air automatically, just so should the automobile get the oil.

That's what happens in a Marmon 34. Every moving part of the motor is automatically lubricated. Oil is fed to the bearings under pressure through a hollow crankshaft.

See that the demonstrator explains this to you fully and understandably. Have him show you how it works, for it is genius made visible.

In a Marmon 34 a per-

feetly simple device controlled by the throttle-lever automatically increases or decreases the supply of oil.

And not according to the speed of the motor, mind you, but according to the amount of power developed.

Always in sight of the driver, a small gauge reports the pressure behind the oil.

The Marmon 34 oiling system is so ingenious, so thorough, simple and satisfactory that to examine is to indorse.

Look before you buy.

NORDYKE & MARMON COMPANY Established 1851: INDIANAPOLIS

DU PONT'AMERICAN INDUSTRIES



Chemical Products

For Factory and Laboratory



200 Mar 100 C

Chemical Products

Acetic Ether

Amyl Acetate Aniline Oil

Bronzing Liquids Collodion Dark Creosote Dead Oil

Dimethyaniline
Dimethyaniline
Dinitrophenol
Ether, U. S. P.—1900, and
Anaesthesia
Ethyl Acetate
Flotation Oils Iso Amyl Acetate, C. P. Iso Amyl Alcohol, C. P. Lacquers Leather Renovators Leather Substitute Solutions Mantle Dips Napthalene Parlodion Patent and Split Leather Patent and Split Leather Solutions
Pegamoid Aluminum
Paint, Pitch
PONTAR—A Road Making Material
PONTOKLENE — For Cleaning Autos
PY-RA-LIN Enamels for Wood and Metal
Refined Acetone Oil
Refined Creosote
Refined Fusel Oil
Salicylic Acid
Shingle Oil
Sodium Acetate Sodium Acetate
Sodium Acetate
Solvent Naphthas
Solvent Thinners
Sulphur Black
Waterproof Cement
Wood Preservatives

WE ARE the manufacturers of coal tar products, pyroxylin, and its solv-

ents and many preparations in which these materials form the chief ingredients.

Our plants at Parlin, and Deepwater Point, N. J., are designed especially to care for the particular requirements of the various industries in which our products are used, and they represent the most modern development in construction for the manufacture of

these products. Expert supervision and thoroughly equipped working laboratories which control our factory operations, as-sure UNIFORM QUALITY of the highest standard.

The Du Pont Company's large resources enable us to command the best available in technical skill, raw materials and unequalled facilities and these advantages place us in a position to offer the best possible in the three most important considerations of QUALITY, PRICE and SERVICE.

The technical skill and facilities of our laboratories are at the disposal of our customers, present and prospective, in working out any problems connected with the use of our products.

We invite your correspondence.

DuPont Chemical Works

Equitable Bldg.

New York City

DU PONT AMERICAN INDUSTRIES

E. I. du Pont de Nemours & Co. - - Wilmington, Del. Industrial, Agricultural, Sporting and Military Explosives Du Pont Fabrikoid Company Wilmington, Del. Leather Substitutes

Du Pont Chemical Works - - 120 Broadway, New York Pyroxylin and Coal Tar Derivatives

The Arlington Company - - 725 Broadway, New York Owned and Controlled by E. 1. du Pont de Nemours & Co. Ivory Py-ra-lin, Auto Sheeting, Cleanable Collars Harrisons Inc. Philadelphia, Pa.

Paints, Pigments and Chemicals

MUNROE FELT & PAPER CO.



C. W. RANTOUL CO.

42d Street Building

MANUFACTURERS OF

Parcel Post Kraft

For High Class Wrapping. Bags, Envelopes, etc.

Tough, Elastic, Pliable, Uniform. Free From Acid and Adulterants. Made From Pure Imported Sulphate Pulp.

MAKERS ALSO OF Blanks, Carpet Linings, Cheviots, Crimps and Other Specialties.

MILLS AT LAWRENCE, MASS.

Office: 79 Summer St.

BOSTON

MERRIMAC CHEMICAL CO. BOSTON, MASS.

New York Agents